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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.      | CONFIRMATION NO. |
|-----------------|-------------|----------------------|--------------------------|------------------|
| 10/656,925      | 09/05/2003  | David K. Platner     | 60,130-1713;03MRA0069CVS | 8358             |

26096 7590 06/08/2005

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| EXAMINER |
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TORRES, MELANIE

|          |              |
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| ART UNIT | PAPER NUMBER |
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3683

DATE MAILED: 06/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/656,925

Applicant(s)

PLATNER ET AL.

Examiner

Melanie Torres

Art Unit

3683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 17 May 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-10 and 12-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 and 12-28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-10 and 12-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duchemin in view of McGibbon et al. and further in view of Davis et al. (US 4,623,133).

Re claims 1-10 and 12-28, Duchemin teaches a suspension comprising a leaf spring (1) comprising a forward leaf spring segment (right side) defining an arcuate segment (4), a rearward leaf spring segment (left side) and a mounting segment (2) intermediate said forward leaf spring segment and said rearward leaf spring segment. (Figures 1-7) However, Duchemin does not teach wherein the leaf spring is a solid composite. Davis et al. teaches a solid leaf spring. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have made a leaf spring solid in order to increase its strength. McGibbon et al. teaches a composite leaf spring. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a composite material in the spring of Duchemin since it is well known in the art that composites are used for their strength. Further, Duchemin does not teach a mounting segment comprising a shear damper mounted to the rearward spring segment. McGibbon et al. teach a mounting segment (12) comprising a shear

Art Unit: 3683

damper (24) mounted to the rearward spring segment. It would have been obvious to one of ordinary skill in the art to have used the shear damper of McGibbon et al. in the system of Duchemin since it is well known that shear dampers are used in suspension systems to reduce the shear stresses on leaf spring suspensions.

3. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Duchemin in view of McGibbon et al. and Davis et al. and further in view of Constantinescu.

Re claim 24, Duchemin as modified above does not teach overmolding a molded material at a single predetermined location along the mounting segment to interlock the molded material with the leaf spring. Constantinescu teaches overmolding a molded material at a single predetermined location along the mounting segment to interlock the molded material with the leaf spring. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have overmolded the components in order to simplify the assembly of a suspension. (Column 6, lines 20-48)

### ***Response to Arguments***

4. Applicant's arguments, filed May 17, 2005, have been fully considered and are persuasive. The finality of previous office action has been withdrawn.

### ***Conclusion***

Art Unit: 3683

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Torres whose telephone number is (571)272-7127. The examiner can normally be reached on Monday-Friday, 6:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci can be reached on (571)272-7099. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MT  
June 2, 2005

*Melanie Torres*  
6-2-05